ABSTRACT OF THE DISCLOSURE

A data transmission system for a building or facility includes a fire control sub-network, a building automation sub-network and/or a corporate sub-network. The fire control sub-network includes workstations connected to fire control panels that are connected to fire control devices. The sub-network includes an Ethernet router that is UL listed for fire protective signaling uses, along with the workstations. This sub-network is integrated with the building automation sub-network through an Ethernet router that is UL listed for information technology equipment. Thus, the fire control sub-network is both electrically isolated and isolated from data transmission traffic through the building automation and/or corporate sub-networks, so that the response of the fire control sub-network is not compromised by data traffic through the other networks. In certain embodiments, building automation workstations and control devices can be included within the fire control sub-network, provided that these workstations are UL listed for fire protective signaling uses.